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Substitute	for form 1449A/PTO)		Complete if Known		
				Application Number	10/730,962	
INFO	RMATION	DIS	CLOSURE	Filing Date	December 9, 2003	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Banerjee, Chandra K.	
				Art Unit	1731	
(Use as many sheets as necessary)			necessary)	Examiner Name	To Be Assigned	
Sheet	1	of	4	Attorney Docket Number	00568/290996	

			U.S. PATENT [DOCUMENTS	
Examiner Cite -		Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant
Initials *	No.'	Number - Kind Code ² (if kno:vn)	MAI-OD-YYYY		Possages or Relevant Figures Appear
JBE	1	5,040,551	08-20-1991	Schlatter et al.	
1	2	5,211,684	05-18-1993	Shannon et al.	
	3	5,240,014	08-31-1993	Deevi et al.	
	4	5,258,340	11-02-1993	Augustine et al.	
	5	4,182,348	01-08-1980	Seehofer et al.	
	6	6,286,516	09-11-2001	Bowen et al.	
	7	2,881,770	04-14-1959	Touey	
	8	3,353,543	11-21-1967	Sproull et al.	
	9	3,101,723	08-27-1963	Seligman et al.	
	10	4,481,958	11-13-1984	Ranier et al	
	11	5,360,023	11-01-1994	Blakley et al.	
	12	5,404,890	04-11-1995	Gentry et al.	
	13	5,568,819	10-29-1996	Gentry et al.	
	14	6,537,186 B1	03-25-2003	Veluz	
	15	3,894,545	07-15-1975	Crellin et al.	
	16	4,947,874	08-14-1990	Brooks et al.	-
	17	4,771,795	09-20-1988	White et al.	
\neg	18	4,917,128	04-17-1990	Clearman et al.	
	19	4,967,774	11-06-1990	White	
	20	5,016,654	05-21-1991	Bernasek et al.	
	21	6,537,186 B1	03-25-2003	Veluz	
	22	4,452,259	06-05-1984	Noman	
	23	5,878,754	03-09-1999	Peterson et al.	
V	24	5,103,844	04-14-1992	Hayden et al.	
_ A	25	5,060,675	10-29-1991	Milford et al.	

Examiner		Date	01/16/2007
Signature	/John Edel/	Considered	01/16/2007

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Substitute for form 1449A/PTO Complete if Known Application Number 10/730,962 INFORMATION DISCLOSURE Filing Date December 9, 2003 STATEMENT BY APPLICANT First Named Inventor Banerjee, Chandra K. Art Unit 1731 (Use as many sheets as necessary) Examiner Name To Be Assigned Sheet 2 of 4 Attorney Docket Number 00568/290996

U.S. PATENT DOCUMENTS						
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of	Pages, Columns, Lines, Where Relevant	
Initials *	No.1	Number - Kind Code ² (d known)	MINI-DD-YYYY	Cited Document	Passages or Relevant Figures Appear	
JBE	26	4,998,541	03-12-1991	Perfetti et al.		
L	27	4,805,644	02-21-1989	Hampl, Jr. et al.		
	28	4,461,311	07-24-1984	Matthews et al.		
	29	4,450,847	05-29-1984	Owens et al.		
	30	4.420,002	12-13-1983	Cline et al.		
	31	4,231,377	11-04-1980	Cline et al.		
	32	4,474,190	10-02-1984	Brand		
	33	4,844,100	07-04-1989	Holzangel		
	34	5,156,169	10-20-1982	Holmes et al.		
	35	5,191,906	03-09-1993	Myracle, Jr. et al.		
	36	4,924,888	05-15-1990	Perfetti et al.		
	37	5,056,537	10-15-1991	Brown et al.		
	38	5,220,930	06-22-1993	Gentry		
	39	6,537,186 B1	03-25-2003	Veluz		
	40	5,396,911	03-14-1995	Casey et al.		
	41	2003-0188758	10-09-2003	Hajaligol et al.		
	42	10/382,244	03-05-2003	Crooks et al.		
	43	2002-0014453	02-07-2002	Lilly et al.		
	44	2003-0131859	07-17-2003	Li et al.		
	45	2003-0075193	04-24-2003	Li et al.		
	46	2002-0020420	02-21-2002	Xue et al.		
	47	20040134631	01-15-2003	Crooks et al.		
V	48	2004/0255985	06-17-2003	Perfetti et al.		

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Examiner Signature	/John Edel/	Date Considered	01/16/2007

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Subs	statute for form 144	9A/PTO			Complete if Known	1
				Application Number	10/730,962	
IN	FORMAT	ION DIS	CLOSURE	Filing Date	December 9, 2003	
ST	STATEMENT BY APPLICANT			First Named Inventor	Banerjee, Chandra K.	
				Art Unit	1731	
	(Use as ma	any sheets as	necessary)	Examiner Name	To Be Assigned	
Shee	et 3	of	4	Attorney Docket Number	00568/290996	フ

		FOREIGN PA	TENT DOCUM	MENTS		
Examiner Initials*	Cite No.'	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ³ (if kno:m)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T [©]
JBE	49	EP 0 532 329 A2	03-17-1993	R.J. Reynolds Tobacco Co.		
JBR	50	EP 0 579 410 B1	01-19-1994	British-American Tobacco Co. Ltd.		
JBE	51	EP 0 608 047 B1	07-27-1994	Phillip Morris Products Inc.		
JBE	52	WO 02/19848 A1	03-14-2002	Japan Tobacco Company		

Examiner Signature /John Edel/	Date Considered	01/16/2007
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Substitute for form 1449B/PTO Complete if Known Application Number 10/730,963 INFORMATION DISCLOSURE Filing Date December 9, 2003 STATEMENT BY APPLICANT First Named Inventor Banerjee, Chandra K. Art Unit 1731 (Use as many sheets as necessary) Examiner Name To Be Assigned 00568/290996 Sheet of Attomey Docket Number

	NON PATENT LITERATURE DOCUMENTS							
Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2					
JBE	53	DAVIS et al., Tobacco Production, Chemistry and Technology, (Eds.) 1999						
1	XU et al., The Preparation of Highly Dispersed Au/Al O by Aqueous Impregnation, Catalyst Letters, V 4, 2003 p. 229							
	55	BERA et al., Combustion Synthesis of Nanometal Particles Supported on q-Al ₂ O ₃ ; CO Oxidation and NO Reduction Catalysts, <i>Journal of Material Chemistry</i> , Vol. 9, pp. 1801-1805 (1999)						
	56	BOMBICK et al., Fund. Appl. Toxicol., 39, p. 11-17 (1997).						
\forall	57	ANDERSON, M.A., University of Wisconsin at Madison, October 2001						

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	Examiner	/John Edel/	Date	01/16/2007
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet of

Complete if Known				
Application Number	10/730,962			
Filing Date	December 9, 2003			
First Named Inventor	Banerjee et al.			
Art Unit	1731			
Examiner Name	To Be Assigned			
Attorney Docket Number	00568/290996			

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tnitials *	No.1	Number - Kind Code ² (if known)	MM-DD-YYYY	Chet bodhien	Passages or Relevant Figures Appear		
JBE	1	US-5,246,018	09/21/1993	Deevi et al.			
JBE	2	US- 4,256,609	03/17/1981	Dale et al.			
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		US-					

		FOREIGN PA	TENT DOCU	MENTS		
Examiner Initials*	Cite No.¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
JBE	1	EP 0 499 402 A1	08/19/1992	Philip Morris Products, Inc.		
JBE	2	WO03/020058	03/13/2003	Philip Morris Products, Inc.		

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials * No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-is: number(s), publisher, city and/or country where published.		T ²			
JBE	1	International Search Report mailed 06/23/2005 corresponding to PCT/US2004/041034			
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Loighbrance	Examiner Signature	/John Edel/	Date Considered	01/16/2007
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